Recd Febr 8
Ans April 10

Philadelphia Febr. 2d 1865

Dr Geo. Engleman.

My dear Sir,

I have not forgotten the flowers of genus Pinus for the next spring; Perhaps you do not want them all. Please write to me a special little note of your desiderata that I may read or write it to our gardiners or botanical friends. I am sure every one of them will take it in consideration and you will be assisted effectually. We have here now a very intelligent young friend of Dr Gray, Mr J. T. Rothrock, an excellent botanist, author of a synopsis of the genus Gaura, which you have undoubtedly received. He will be, early in the spring, at his father's somewhere on the Juniata river where Pinus pungens is very common. He promised me to collect its flowers for you as well as those of other pines.

Poor Canby is sick ever since last autumn - This is the cause of his silence towards you. I have seen in some works of Rafinesque that a Mr Austin was a correspondent of his; but I never heard of a Mr Austin. Please send me your photograph to place near those of Drs Torrey & Gray - I have ordered some of mine and will send one to you in my next letter

Rec. Febr 8
ans. Apr. 10

Be particular in the desired note about Pinus flowers, the species you want, the way of preparing them &c. I promise you to apply to all that I know to be disposed and competent to assist you. If there are duplicates, Well! I will have my share.

My respects to your Lady & the collective and Please remember me to Dr. Hilgard. What has become of his younger brother, the Geologist?

Very respectfully
E. Durand
in haste.

ENGELMANN PAPERS
GARDEN

Rec. Aug 3d
Ans. Aug 13 Lancaster, Penna. July 30th 1865.

My dear Dr. Engelmann,

I have been so much troubled in body and mind, since I received, through Dr. Baumgarten, your letter and *Callitriche*, that I have not even thought of acknowledging their receipt. I thank you now for the return of my *Callitriche*, well determined, and for the fine fruiting spec. of *C. Augustini*, which I have just received in your last favor, dated July 5th.-

These reached me, a few days ago, in Bethlehem, t my friend Fiot's with whom I have spent a whole month, exploring the mountains, the forests, the lakes and floating islands of the northern counties of Penna. We have made a copious harvest of interesting plants some of which I had never seen but in the herbarium.

After receiving your letter, calling my attention to collecting for you male and female flowers of our Pines, I addressed notes to Buist, Mc Cann & others, asking their assistance, and all responded in the most obliging manner, Mc Cann announcing that he had now in full bloom *Pinus pungens*. I hope these gentlemen have been true to their promise and have transmitted to you the result of their gathering. Mr. Fiot left at his brother's in Philadelphia

Cones and male flowers of his *Pinus montana*; but female flowers have not made their appearance this year. I will send these to you, when I return to Philadelp.

I communicated your letter to Mr. Tiot: *Viburnum lentago* grows on his place and everywhere in his neighbourhood. *V. lantanoides* is very common in the mountains, as well as ? a small variety of *V. nudum*. V. nudum, prunifolium, dentatum, &c. are also common in the vicinity of Bethlehem. There are also several species of *Cornus*, among which the pretty *paniculata*, with its white berries.

At the same time as yours, I had a letter from Mr. Hall, with a bundle of *isoetes* roots (perhaps 200) for my friend Durieu. I planted some at Mr. Tiot's, and offered Gray to send him some also to plant in his botanical garden. The remainder will, certainly be sufficient, in the hands of Mr. Durieu, to introduce this fine species in all the botanical gardens of Europe.

I am very glad to see you inclined to consider this a good species. As for me, without any particular reference to the spores, I never doubted that it differed specifically from our Eastern plant – judging from

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his very elongated bunches, its slender and palish foliage, with shining black bases.

The first time I saw your western species, in Gray's herbarium, labelled, I think, by yourself, ~~and labelled~~ I. Engelmanni, I exclaimed: this is truly Engelmanni but our eastern plant is not! and I have long contended with our Philadelphia botanists that it was so. In fact, add to Prof. Braun's description, base of the leaves black, (which he might have overlooked) and his description, if I remember it right, will be applicable to your western plant, much more than to ours, the bases of which are doubtfully longer than wide. My impression is that Prof. Braun had under his view the western plant and not ours.
(in my view spores alone should not be the exclusive distinctive character)

I have not seen Canby for several months. He had then almost entirely recovered from his long sickness; but he had since another relapse. # I had been acquainted with Alnus maritimus, Muhl.? Since Dr Pickering discovered it on the Eastern shore of Maryland. When Canby showed to me, I told him what it was and compared it, with him, with Pickering's specimen in the Academy's herbarium. I have no books with

MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS

me to ascertain who described under the name of *A. oblongata*, and Prof. Porter is not now in Lancaster; He started two weeks ago, with Leidy, Charles & Aubry Smith, on an excursion to the great lakes.

The troubles of body and mind to which I refer in the beginning of my letter, were brought upon me by the following causes: The vicinity of my house becoming infected with taverns, gambling houses, &c and being offered a good price, I sold it, deliverable first of June. At that time, my daughter in law was dangerously ill with typhoid fever and we could not remove her. Hence difficulties with the purchasor. Besides I could find no house to buy or to rent, and we were obliged to sell at auction the greatest part of our furniture. As soon as my daughter was well enough to be removed, she was transfered to Lancaster, where her mother and sister reside. Ever since, I am a wanderer and will not return to Philadelphia before September, when we will try the boarding system, until we find a convenient house.

Farewell, my dear Doctor, and believe me as ever your devoted friend E. Durand

Address your letters, care of W. G. Norris, Lancaster or Academy of Nat. Sciences, Philadelphia.

Rec: Aug 31st
Ans Sept 16

Lancaster, August 27th 1865.

Dear Dr. Engelmann,

Your favor, dated 13th instant has been duly received: I will fulfill, I hope, all your desiderata respecting the seeds of *Viburnum*, *Cornus* and the cones of *Pinus montana*.

I shall remain here until the first of september, when with Prof. Porter, I will start for Bethlehem to spend a few days with our friend Tiot; and hence start with him for Philada., with the view to a grand botanical excursion to the sea shores of N. Jersey with our friends Prof. Leidy, Charles and Aubry Smith. There is now more ardor for our amiable science in Philadelphia than I ever knew before, and the number of plants new to our flora has been considerably increased in these last three years. Prof. Porter especially is an indefatigable labourer and to him Dr. Gray will be largely indebted in the next edition of his flora.

He and the three above named gentlemen, Prof. Leidy and the two Smith, have spent a whole month in an exploration of the shores of the Great Lakes, and brought hence a large collection (about 550 species) many of which are not included in Gray's flora, and with 4 or 5 entirely new species. Among the latter 2 specimens of a small *Isoetes* which, from the very large size of ~~their~~ its spores, might prove to be *macrospora* of DuRieu. They have been sent to this gentleman for study. I hope that he will identify them with the CatKill Isoetes, which I sent him three years ago.

I have written a long letter to Prof. DuRieu on the subject of Isoetes. I remain firm in my belief that there is yet a great confusion with regard to the species that bears your name, and the remark in your last letter that Hall's plants have not always black bases, confirm me in the opinion which I have maintained against all "that the plant described by Prof. Braun under the name of Engelmanni, was not the Delaware species; but the western. The expressions leaves slender, soft and flaccid and light yellowish green and dilated bases longer and broad" do not apply to our eastern plant the leaves of which are firm, shining and of a dark green, with bases rather oval and sometimes more broad than long.

The spores, which I have not examined with the microscop may be about the same; but there are other distinctive characters that are not to be neglected, exclusively of spores. I will repeat that when, for the first time, I saw, in Gray's herbarium, a specimen of the western Isoetes, I believe, marked by you Engelmanni — I exclaimed If this is Engelmanni, our is not the same!

The radical bunch (la souche) of the western plant is narrow and elongated, comparatively; the base of the leaves longer than broad, which is the reverse in ours. I assure you that, as much as I can remember, the Gray's specimen appeared to me to be the same as Hall's plant, with a foliage quite different from our plant

~~I rage~~ I suspect that you have not our eastern form in your western parts.

The circumstance that in your specimens of Hall's plant you have some the leaves of which have green bases, induces me to believe that such were the specimens on which Prof Braun founded his description, otherwise he would not have failed to notice the black shining colour of the bases. I beg Mr DuRieu to clear the matter by requesting Pr. Braun to send him his original specimen, should it be at the risk of demolishing his melanopoda. I have also requested DuRieu to finish his monograph of the American Isoetes and send it to us for publication.

I never saw an area more rich in plants than the County of Lancaster. I have taken several excursions with Prof Porter. In two marshes, we met with his large Isoetes, which grows in a muddy soil by the side of small water-courses. It is rarely covered with water, much above the base of the plant. Early in the season, the leaves are erect; later, they are flat on the ground, as we found them. They are about one foot long, thick and coarse and of a deep green color, very much like those of certain species of *Juncus*; the bases are short and very broad. It appears to be the same as the Delaware, Darby and N. Jersey plant, but larger, as all the vegetation of the rich soil of this district. I have gathered a dozen roots to send to Durieu, at the same time as our N. Jersey plant and *I. riparia*, of which I will also send you some. Prof. Porter will, I am sure, attend to his own, to send you some roots for cultivation.

When I return to Philadelphia, I will see Buist and the other gardiners to whom I recommanded the subject of Pines. They have perhaps something in hand for you — and I will attend myself to the cones of *P. montana* when I return to Fiot's. In a letter just received from him, he says: "Après notre excursion en Jersey, j'espère vous ramener en terre sainte, de gré ou de force. En nous promenant dans les bois, nous pourrons satisfaire le Dr Engelmann, en récoltant des graines de *Viburnum* et de *cornus*, qui ne sont pas encore mûres."

Adieu! mon cher Docteur Engelmann, croyez moi bien sincèrement votre ami dévoué

E. Durand.

Please send my your photograph, I will send yo mine from Philadelphia

Recd Oct. 5th
Ans. same day

Bethlehem, Oct. 1st 1865

Dear Dr. Engelmann,

I send you herewith a letter from Mr. Durieu which, I think, will interest you as much as your own of 16th ultimo (which I translated for him) will be agreeable to him. You explain to each other several important points on the Isoetes question. So, instead of the old I. *lacustris*, which was misnamed, we have now 7 or 8 N. amer. species. I give up my doubts about the identity of your western and our N. Jersey & Delaware plants. I only made allusion to the specimen I saw in Gray's herbarium which to me appeared to possess habits & forms different from our plant. I have no doubt that the Lancaster species will turn up also to be *Engelmanni*; but like the *melanopoda* kept out of water its leaves are stouter and stiffer, spread flat on the ground, with broader bases than the Delaware plant which, I believe, is always more or less covered with water. In a letter received a few days ago from Porter, he tells me that he will visit his locality, purpo-sely to collect some roots for you.

If I obtain permission from the curators, which I doubt not, I will send you a full suit of all the forms of Juncus that I shall find in the Academy's herbaria. I am very glad to see you take up that subject, which so far is very confuse.

I have aside for you the male flowers and ripe and green cones of Pinus P. montana. It had no female flowers this year, except a few at the top, which Mr Tiot did not see. We perceive only 2 or 3 green cones at the top of the tree, which I will have gathered for you. I will send them to you in a few days with ripe fruits of some Viburni and Cornus. As Mr Tiot is in bad health, we have not been able to take a trip to the mountains with the view to gather seeds of the *Viburnum lantanoides* which does not grow in this vicinity.

Farewell! my dear sir, and believe me truly yours

E. Durand

Rec.d Oct. 27th
Ans Nov. 2

Phil. Oct. 24th 1865.

My dear Dr Engelmann,

The lable you sent me and which I return, is, most likely, in the hand writing of Michaux the younger. I have compared it with one of his letters, and I find his V. (R) quite characteristic. Such lables are also to be met with in our general herbarium. Our President, Prof. Bridges, also thinks your lable to be in Michaux's hand writing; He says that, when Mr Maclure returned from Europe, some 40 years ago, he presented the Academy with a set of Amer. plants which had been given to him by Michaux.

Flumen Lecha on Moser's lable means Lehigh, certainly! Mr Fiot tells me that Lecha or a sound nearly similar, is the name the Pennsylvania Germans give to the river Lehigh.

I found, the preceeding years, on an island near Bethlehem, a small Isoetes which I sent to Mr Gay under the name of riparia. I looked for it, last September, but could find only one specimen that was mutilated by Mr Fiot, by pulling it out.

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The Water had been uncommonly low in the river, during the summer and they had disappeared. I will try to send you some Specimens next year.

I went, yesterday, hunting our *J. riparia* on the banks of the Delaware: I did not find any old plants; but, at low tide mark, the shore was strewed with young plants of which I send you a hand full in a small box.

I apprehend that you will be angry at the sight of the box of *Junci* which I have prepared for you. You will find them an incumberance and troublesome to overhaul and lable. I tried to pick up Nuttall's specimens and such others as might appear singular; but knowing this genus very imperfectly and not having meddled with it since long time, I feared to select the very common ones and leave behind others that would have proved the most interesting to you, and some even perhaps new.

I, therefore,[‡] made up my mind to send the whole of = general, N. American & Short's herbaria, as well as my own, and, at the request of Dr. Leidy, his own bundle.

I had, yesterday the whole packed in a box and, if not too costly, I will dispatch them by Adams Express; Otherwise, I will go through them and select those that I will judge the most acceptable to you.

In the same box, besides the I. riparia, you will find a fine specimen of *Pinus montana* with young and ripe cones; but no female flow. The branch from the very top I send you was the only one on the tree, bearing fruit. Triot had watched in vain for female flowers; probably they will be in abundance next Spring. There are also some berries of *Viburnum*.

As you have some specimens of *Cactaceae* to dispose of, please to send me some for Academy and for myself. If any over, I will distribute them to Porter, Triot & Leidy.

Believe me sincerely yours
E. Durand

You owe me now your photograph.

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Tuesday evening.

I feel quite disappointed: I intended taking myself the box of Junci to Adams' express, and see what the freight would be. I went to the Academy this ~~even~~ afternoon and I found that the Janitor had dispatched the box with others. I regret it and fear that the freight be too heavy— Let me know what it will be, I will reimburse you. When you return, address to the Phil. Acad. of Sciences for the Botanical Committee.

E. D.

Address your letters, if you please, at the Academy I am always sure to receive them

Rec^d Dec 2^d
Ans Dec 6

Philadelphia Nov. 29th 1865

Dr. Geo. Engelmann, St Louis

My dear Sir,

Your favor of 2^d instant has long been in my hands; but occupations with Short's herbarium have kept me busy. I am glad that my box of Junci have arrived safe and prove interesting to you. If they are in a dreadful confusion, it comes principally from the circumstance that we have now in the Academy a number, greater than ever, of young and old botanists who resort frequently to the herbaria than before, and make the things worse. The genus Juncus has of late elicited great interest, as very imperfectly described and settled; and many have consulted the old collections to try to make up the species they had on hand. I never knew any thing about that genus and it is not astonishing that in my own and the North American herbaria, species were frequently confused. The latter was arranged by myself as a temporary thing, which I intended to revise and put in better order afterwhile, by attaching the labels to their respective specimens but, as I say above, this herbarium is accessible

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all and some are extremely careless about follow ing the instructions prescribed in a ~~printed~~ written sheet that nobody takes the trouble of reading.

I am very glad to see you undertake the task of settling our american species of Juncus; You will do a great service to us all; and if after this, you take up some of our Cyperaceae, we will all be greatly indebted to you.

In all the collections of Fendler's Venezuela plants, of Wright's Cuba, Alexander's Jamaica and other South American plants, I find only a single species of juncus from Venezuela, looking very much like a large J. bufonius. That of Baldwin, marked Maldonado comes from Paraguay. Maldonado is a town and sea-port on the Platte River, where Baldwin, then a surgeon in the navy, remained for some time.

I do not recollect to have received from you any seeds of Pinus. If you send some, I will give them to Buist who will probably be very glad to have them. If you can spare some live Cactaceae, I will give them also to the same or to Kilvington. But, as to me, I do not possess of foot of available ground

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I will never get mad at what you call your scolding. Such scolding are always useful as good advices

~~Le comte~~ I received yesterday the enclosed letter of Mr Durieu. It is partly an answer to the letter you addressed to me some time ago, after having read that of Mr Durieu's, which I communicated to you. As you are not in direct correspondance, I am happy to be a medium between both of you, on a subject in which you take mutually great interest. If any remark on your part, I will transmit it to him.

Do not forget that you owe me your photograph.

Now, my dear sir, Good by and believe me sincerely yours,

E. Durand

Canby gave me specimens of his Isoetes with leaves fully 24 inches long if not more.

I divide between you and the Academy, the specimens of Isoetes tenuissima, Boreau, which Durieu has sent to me. They are labelled: Étang de Ris-Chauvron, Haute Vienne, France. 8 Sept. 1865.

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Rec. Dec 25th
Ans Jan 17

Philadelphia Dec. 21st 1865

Dr Geo. Engelmann, St Louis

My dear sir,

As you do not correspond directly with Prof Durieu, I am an intermediary to transmit to each other your mutual observations. I have communicated to him, in a letter which I wrote yesterday, some remarks of yours, which will add to all the informations he has thus received through me, from you.

C. E. S. is for Charles E. Smith, a gentleman, president of a R.R. company, whose leisure hours are spent in the study of botany. Somebody was remarking to him that he was astonished to see a man of business occupy himself with the study of plants, he answered him: My dear sir, I should die, if I had not such pleasant recreation, from the weariness of business. Mr Smith is a very liberal man who provides his botanical colleagues with free travelling over a great part of our Pennsylvania Rail-roads.

When you have done with genus Juncus, you ought to take Cyperus and Scirpus, two genera which also are very confused.

Canby, has at last recovered from a long spell of sickness. He is a very active student of his favorite science. Every morning he comes to Philadelphia to study his carices with Boott's great work, and returns at night. He is a most obliging young man and will be happy, in the season, to send you any quantity of his Isoetes.

Have my youngsters of I. riparia arrived in good order and will they succeed?

Very sincerely yours
E. Durand

Recd Jan 27th
Ans Febr 1st

Phil. Jan. 23d 1866. —

Dear Dr Engelmann,

I received yesterday yours of 17th instant; I hasten to bring you joy by sending you more than you expect:

1st a flower and two different leaves of Nuphar sagittaefolia. The narrow leaf and flower were collected at fayetteville Ga by Major Leconte. The Wide and thin leaf by Nuttall, as you will see by his lable. There are similar specimens of one leaf and one flower in the N. Am. Herb. of the Acad. and in mine, and a similar one in Short's herbarium labelled N.S. (W. N. C.) Rev. Curtis. W. N. C. mean, I think Wilmington N. Carl.

No 2 is Nuphar flava lutea, L., collected some 30 years ago, if not more by Mr Z. Collins at a place called flat-rock, on the Schuylkill, 7 miles ab. Philadelphia. No mistake about this, you have the autograph of Mr Collins. I have never, but once, visited that place; but I will put all our squad of young botanists after it next summer.

The letter, which has just been returned by Gray, to whom I have submitted it, comes from Collins' herbarium which I bought, at his death, with that of Rafinesque to whom it had been given by the administrators, for a sum of 3-400 Dollars, which R. pretended due to him by Collins for services, &c.

The third is a *Nymphaea* which I take for *N. ampla* of De Candolle. This I received from Dr. Hale of Louisiana, with whom I have long been in correspondance. The leaf is 11 by 8½ inches.

We have in the Jersey a small variety with purplish leaves, and flowers sometimes pinkish 1-2 inches wide. See in the report of the regents of the University of N. Y., for 1865, a *Nymphaea tuberosa* mentioned. Do you know it?

No return of the bits I send you now. They are all from my herbarium and I can spare them.

I have never meddled, but accidentally with *Junci*. I have no recollection of *Juncus acutus*, Sea Shore N. J. When I see the specimen, I will probably be able to say more about it – where I found it or whether it is a mistake. As to Baldwin's specimen, You may rely on it. I sent it to you purposely, although not N. amer.

If you can dispose of spec. of Parry & Bigelow's new Nuphar or Nymphaea, they will be welcome. I bought lately 50 specimens of Parry's high Alpine plants: Guess how many new species they added to my herbarium?
- - - - - - - - - - - - - One!

Astragalus tridactylicus which looks so much like the trifidus of Pursh, that, without reading the labble, I threw it ~~with~~ on the sheet of the latter. It is a good species, differing by the flowers, the legume and the stipules; otherwise, au premier coup d'oeil, scarcely discernible from Pursh and Nuttall's specimens.

Durieu writes to me that he has saved about one half of the infant Isoetes riparia that I sent him in a letter, wrapped in oil cloth.

Farewell, Dear Engelmann, and believe me ever your devoted friend E. Durand

How are you now politically and commercially in St. Louis?

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Recd Febr 13th
Ans Febr 24

I. ~~Conradi~~ viviparus Con
J. H. [illegible]

Phil. Febr. 8th 1866

My dear Doctor

Yours of 1st instant has been duly received. I rejoice to have given you a treat of Nuphar and Nymphaea. Let me give you a little more:

1st a unique and rather injured flower of a Nuphar from Up. Louisiana (Dr Josiah Hale) which, I think belongs also to your Variegatum. I have a single leaf, very large with sinus completely closed, one lobe crossing over the other.

2d The 3 specimen of N. Sagittaefolia in our herbaria are exactly the same, same leaf and same small flower, each unique. Mine appears to be the best and I send it whole to you, as you have more skill in directing. You will return it.

3d I see in the general herbarium a flower (I have seen neither fruit nor seed) labelled by Nuttall: "Nymphaea odorata, var. sanguinea!! A hybrid without stamens, from a pond, Lancaster Massts" flower & peduncle purple. With the petals, principally the central, acuminate. External petals not very different from those of the specimen which I also send you, flowers & leaves the same size. Rather abnormal state than hybridity.

I visited last summer, with Mr. Fiot, a beautiful mountain lake, so far unknown to botanist. Its banks were covered with interesting northern plants, of which half a dozen at least were new to Porter, as Pennsylvanian. That lake was covered, towards its banks with Brasenias, Nuphars and Nymphaeas and a multitude of aquatic plants. I certainly saw leaves of Nuphar with closed sinus and I exclaimed N. Europaea! We had no time to collect and we were to return next day; but Fiot got sick and we returned home. By the by Poor Fiot is very ill from a chronic & complicated disease.

Yours affectionately &c

E. Durand

Is not a specimen of Nuphar, collected by Geyer, in Nicollet's expedition, on the upper water of Rivière aux outard, also your variegatum? I presume you have it. it is n° 16 of that collection and is labelled Nuphar advena, Torr & Gray by whom it was distributed.

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Recd March 8th
Ans April 11

Phil. March ~~2~~4th 1866

My dear Dr Engelmann,

It is sunday, a dull day generally! Let me spead it agreably in a coversation with you on our favorite topic, as an answer to your letter of 24th ultimo.

I see that Walther was the first who described *Nuphar sagittata*, under *Nymphoea*. He makes it simply *calice triphyllo*, corola 3 petala, without allusion to the anthers.

Michaux *N. longifolia* & Persoon's *N. sagittata*, both say: Calice hexaphyllo; petalis nullis; Anth. subsessilibus.

What Walther has taken for petals, the others make inner divisions of the calyx.

Do you find other petals, such as we have in the other species, from 10-20?

As to the term subsessile, it may not be exactly appropriate, yet the filaments are very short and shorter, ~~I believe~~, than the anthers.

What is *Nymphoea pentapetala* of Walter? Calice pentaphyllo, corola pentapetala alba. It cannot be our *Nelumbium luteum*, with only 5 petals?

If winged petioles and closed sinuses of the leaves are the characters of your *Nuphar variegatum*. Collins, Dr Hale, and Geyer specimens belong to it, and not only those; but a specimen in Short's herbarium

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labelled, New-york 1826, Herb. H. H. Eaton, possess these characteristics, as well as specimens of N. Jersey in the general herb. of Academy. Thus, as you say, This species is extensively distributed over the U.S. I visited last summer a Mountain lake at the extreme N. Western Pennsylvania, with my friend Tiot, and the surface of that lake near the banks was covered with Nuphars & Nymphaeas; I saw large floating leaves which I took for those of N. ~~flava~~ lutea, precisely because the lobes were not divaricate; but my friend insisted to look upon them as belonging to the common *advena*, and said he had frequently seen them of them form, when floating. and, as the true *advena* was covering the shallow banks near by, I remained convinced they were the same; but now I am almost sure they were your *variegatum*. The N. *Kalmiana* was also there in abundance with *Brasenia* and other aquatic plants *Sparganium natans*, & It was late in the season and all these plants out of flower. Nuttall has a *Nuphar tomentosa*, N. S. which is nothing else than a somewhat tomentose form of *advena*, occasionally found along the Wissahicon Creek.

I did not send you the flower of Nuttall's ~~[illegible]~~

I met Mr. Ch. Smith yesterday: Quite proud of the deserved compliments you pay him. He told me that he had presented you his package of *Junci*.

I had the pleasure to see Dr Torrey in Philad.
He presentd me his photograph and that of Dr
Chapman – I hope soon to receive yours. I must

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Rec^d March 8th

Isoetes flaccid. Shutt. doubtful

the plant, I suspected it to be the Florida species. You will see that the leaves are cut at top. I requested Mr. S. Powell of Newport to procure me some live specimens to send to Durieu. He went too late; the old plants had disappeared and in their place, the babe plants were found and collected in abundance; but the day was very warm and these young plants remained long wrapped in a gum elastic cloth and suffered much. Mr. Powell would not send them in that way and he gave them to his Gardiner to nurse in his hot house. There they have remained all the winter, and I received them two weeks ago. As the weather was then very cold, I would not risk them in a sea voyage — and I carried them to my friend Kilvington, the gardiner, to take care of them. Shall I send you some? Would that be the form of Chapm. I. flaccida?

Now let me read your letter again to see if I have more to say:

Yes! I give you all I sent you, poor treasure and with pleasure, although I am not overrich in those species; Happy that they have been of some use to you and advance somewhat the State of our N. American Flora.

I compliment you upon your California treasures of the Juncus tribe. If you have too many, slip one or two in my bundle. Can say nothing of my J. acutus, unless I see it, and yet . . . some 35 or 40 years ago I used to herborise much in the Jersey with my friend Griffith, and that specimen must be of that date. I recollect nothing about it, in as much as I never studied that genus. I am glad you have it from Calif.

Now, my dear Sir, I have kept you a long time upon this scribbling, I let you free and God bless you!

Yours sincerely

E. Durand

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Recd June 8
ans. jun. 24

Philadelphia June 5th 66

Dr. G. Englemann

My dear Sir,

Receive my thanks for the Transactions of your Academy, containing your excellent monography of genus Juncus. Twelve new species! It was worth undertaking this arduous task. I am now very anscious to receive my parcel in order to see how many species I have of the fifty enumerated in your systematic arrangement. What a pity that we have not the description of the whole fifty; I hope that we shall not have to wait the printing of Vol. III, ~~to~~ before we have the sequel.

I have met with a great loss in the death of my friend Tiot. He died on the fifth of April last. He has left me his herbarium which contains at least 2000 rare specimens from my herbarium which I am now occupied in replacing. The rest of his plants

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Were Pennsylvanian, principally from the mountains and generally fine specimens which I use to replace the old specimens of my own herbarium. I think *Juncus Smithii* is in his parcel of Junci.

The seeds of pine you sent me for him, I gave to Buist.

I have to stop here: my son calls upon me to go see his wife now in the country with her mother. When gold was at 125, I made up my mind to go over to Europe; But now it is too high and I will have to content myself with another visit to the mountains, without my poor friend.

Do not forget that you owe me your photograph! If you are one of those who feel a dislike to sit before the Camera obscura, you must overcome that dislike to please your friends. I have already 20 of our American botanists in my botanical album, *y compris* Torrey, Gray, Chapman, Curtis, Clinton, Porter; &c. &c. Yours must be there also!

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Believe me, my Dear Dr. Engelmann,
very sincerely yours

E. Durand

In a hurry.

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Rec. June 21th
Ans. Jun. 4

Phil. June 18th 1866

Dr. G. Engelmann, St. Louis, Mo.

My dear sir

The enclosed from Mr. Canby was received yesterday, Sunday, morning. His diligence in fulfilling your request, has stimulated me and after inquiring of the precise hour of the low tide, I prepared myself for the trip. At one exactly, I have crossed the Delaware and found *Isoetes riparia* in abundance. I send you evidently 2 crops an autumnal and one of this Spring. both, for want of Sphagnum, enveloped in *Geranium pusillum* stem. There is an immense bed of the latter just by the locality of *I. riparia* and if you want to revive this old European acquaintance, I think the roots will keep well. I hope my box will arrive safe and in good condition.

I communicated your letter to Leidy; but I could not see C. Smith. They, with Porter, go to Pottsville next friday with the view to collect Juncus Smithii. I have requested all our young botanists to look for Juncus acutus. Canby & Mr. Commons will look for it on the coast of Delaware & Maryland.

I am very anxious to see how many of your fifty Junci, I have in my herbarium. I am sorry that there was so much confusion in mine and the Acad. Herbaria. Juncus is one of these genera which I never studied. I placed the specimens as they came to me, approximately.

Dr. Hunt is a gentleman deeply scientific. Physicks, chemistry and organic botany are his branches. He has a farm near Darby, a borough 5 miles fr. Philadelphia on the old Baltimore road. Isoetes Engelmanni grows in a pond on his farm. I think I sent you some of his specimens. I sent some to our lamented friend Gay, with some remarks from Dr. Hunt. Hence, probably, the inquiries of Prof. Brown. Should you want any informations from Dr. Hunt, write to him, through me, I will deliver your letter. I do not recollect his initials, nor the number of his house in N. 4th St. but I can find it.

I am in great hurry - I have to go to Germantown visit my children and I have just time to meet the carrs.

Excuse me & farewell

E. Durand

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Rec. July 2d
Ans same day

Philadelphia 28 June 1866

My dear Dr Engelmann

You will see by this that I am a man of expedition. I received, this morning yours of 24th and I have all materials ready to answer it, in as much as I am starting tomorrow morning for the Country to join my family. Of course, in my hurry I may blunder, as you have yourself in writing _Juncus_ instead of _Isoetes_; but it will make no difference, you will know what I mean. So, you have received a package of _Juncus_ in Sphagnum, which _Juncus_ turns out to be two distinct species of _Isoetes_. This is a very singular fact, added to the following:

" 2 years ago, at the request of M. Durieu, Mr Canby sent me for him some living plants of his Wilmington Isoetes, collected in one locality and Durieu found two distinct species. Several of these plants proving, according to Durieu, to be I. something (echinospora?) In Durieu's communication to the Society of botanists, of which I sent you a copy, he relates this fact; but with a mistake, giving another name for that of Canby."

Boott

These two facts are very singular and I leave them to your deep reflection!

I was quite anxious about my box of I. riparia; Carrying it to the Post office, I perceived that I had done wrong in slightly moistening my plants, my box seemed to have lost its shape, and I feared that the tin I put around would break open and let my plants exposed to drying. Have they arrived in good condition.

Canby is the best fellow in the world; He will do any thing to help you.

The specimens of *Isoetes riparia*, which I sent you living, come from the Jersey side of the Delaware above Cooper's Point. Cooper's point is the extreme northern part of Camden. The locality is close to & above the last houses of Cooper's Pt. I send you some specimens collected by Nuttall at a place called Gibsonville; but I have not been able to ascertain where this Gibsonville was, probably above Philadelphia on this side of the Delaware; but there is no more Gibsonville. It has no doubt been swallowed by Philadelphia, with Kensington. South of Landreth's garden is below the Navy yard. Thus Isoetes has been found above, below and opposite Philadelphia on the shores of the Delaware. If I have any more to add to this from further inquiries, I will advise you of it. All those localities above and below the city have been destroyed by the increasing extention of the city; and my locality above Cooper's point, Will also soon disappear.

There is a locality in the Jersey 3½ miles above Camden on the R. R. to Atlantic city. I send you a few specimens collected there last year. I would be very happy to revisit this locality and send you living specimens; but indeed it is for me quite a fatiguing undertaking. You go there by rail road; but you have to return on foot, through a sandy soil Without Scarcely a tree. Durieu pronounced these I. Engelm. They grow in a ditch full of Clear Water; they spread perfectly flat on the mire in a beautiful manner. Where the Water is very shallow, the leaves are irregularly erect. They grow in a light mud through Which I passed my hand under the roots and lifted them up. Without any difficulty The riparia of the Delaware grow in a sandy mud filled up. With stones by removing Which you can extricate them very easily Without the assistance of any instrument. They are uncovered by Water

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at low tide and only for a few hours.

I do not promise you *myself* to collect any species of Juncus for you; but tell me which species you expect from Philadelphia, and I will obtain them from our young botanists I am really to old now to run after plants. I believe you have now a heap of J. Smithii. The J. asper you will have.

I believe the discoverer of *J. riparia* and of the locality above Cooper's point is Dr. Zanzinger. See 1st Ed. of Gr. Manual.

I have recommended our youngsters the Nuphar of Flat rock. There is a party formed of Porter, Leidy, the Smiths &c to visit my mount. Lake in Wayne county. I do not feel solid enough to compete with those young & athletic men. They will bring, I hope, the *N. variegatum*

Leidy returned yesterday from a trip down the river. He has brought 3 or 4 spec. of Junci, among which one of which I send you specimens. It seems to me a state of *J. Greenii*, with capsules not exceeding the sepals — perhaps not ripe enough to have the capsule full grown. *No acutus* nor *Roemerianus*

Recd July 2d 1866

I write to you in a great hurry and with very bad pen and thick ink; but all my things are packed up, books, paper & all - and even my dictionaries to which I have to resort occasionally as my memory has become so bad as to make me forget the spelling of my own native language.

I have sent your letter to Dr Hunt. As I have said in my preceding letter, Dr Hunt occupies himself principally with organography. He can in this respect, communicate to you some important observations. I am glad you wrote to him.

I received this morning a letter, with some plants, from the reverend Blake of Gilmanton N. Hampshire. He sends me at the same time his photograph which he was owing me since more than a year. This makes me think of renewing my earnest call for your own. I reserve a place for ~~him~~ it opposite that of our friend Curtis

Mr Blake is an enthousiast who will

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all in his power to oblige you in your arduous undertakings.

Satis & Superque

Excuse this scribbling and believe me
as ever your devoted friend

E. Durand

Always Academy of Nat. Sciences.
I shall visit the city at least twice a week

Rec^d. July 17
Ans. Sept 19

Germantown July 14th 1866

Dear Doctor

As you might be uneasy about your package of Junci, I write to inform you of its safe arrival. Every bundle has been delivered to its addren, or restored to its place after a complete rearrangement. I am, and We are all, thankful to you for your excellent monograph of this ~~untill now~~ genus, hitherto, so obscure ~~genus~~; and I, in particular, for the trouble of correcting my blunders & confusion I confess that I never paid much attention to Junci:

Grâce à vous, I now count 40 species in my herbarium! and I have every chance to get J. Elliottii and J. Vaseyi, through Canby & Bebb.

In answer to some of your Queries:
Juncus acutus, squarrosus & another, from my herbarium which I gave to my friend and neighbour Dan. B. Smith, come from Collins' herbarium, which I bought with Rafinesque's. That herb. contained European & american plants mixed up. J. acutus was, I have no doubt, one of them and I thought it might be our maritimus. The inscription "Seashores of N. J. E. Durand," must have been there for a specimen of J. Roemerianus that had been removed from the paper, and probably the very specimen I find in my late friend Fiot's

herbarium, marked J. *maritimus*, Sea Shore N Jersey- E.D. This must have come from the vicinity of Cape May which I have visited twice. But *acutus*, the 2 spec. of my herb., I have never collected myself and I am confident they must be European exotics.

Of The 2 spec. of J. *Roemerianus* you saw in my collect. one was from Leconte, the other from James Read, both southern of course.

In the collection of *Junci* of my friend D. B. Smith, (almost all English or Swedish) I find J. *biglumis* from mountains of Sweden. Unaided by the microscope, we could scarcely see any difference with our R. Mt. J. *triglumis*.

J. *tenuis* is a most Protean form. The var. *secundus* has been collected abundantly *for you*, in the vicinity of Lancaster, by Prof. Leidy and Porter.

For The new form of *dichotomus*, apply to Canby Who was with Leidy. This form grows abundantly on the Delaware Sea-Shore.

I find in the acad. N. am. herbarium a set of poor specimens, labelled by Thurber J. *uliginosus*, Sibth. Rhode Island. I believe that they belong to J. *Girardi*.

When Buckly was here, studying his Texas Plants.

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I did not cease urging him to resort to my herb. and to the Acad. herb. to compare his specimens. Had he done so, he would have found in both, I. Eng. I. leptocaulis, in hand writing of Dr. Torr. and avoided the greatest part of his blunders.

Canby has found I. Elliottii in Delaware. In all our Phil. herbaria, the N. am. was the only one in which this species is represented by a single spec.

All the I. asper of the old herbaria seem to have come from the same source Quaker Bridge through Conrad. Now we have another locality of a more easy access in a swamp called Griffith's S. 9 miles from Phil. There the Smiths and Leidy will collect for you in a month or so, when the plant is in proper condition.

Now let me re-enter the subject of Isoetes: I apprized Durieu of his blunders, which were owing partly to the printer, the proofs not having been submitted to him. As to the reproach you address to him of having sinned against the rules of etiquette by adding his name to that of Mr. Gay in the species Melanopoda I can assure you that D. first pointed out to Gay the distinctive character of this new species. I will show you afterwards

Continue to address your letters to the Academy, I pay frequent visit to the city.

a letter from Mr Gay, in which he makes allusion to this and says that he begged D. to let him describe it in his name, as probably the last chance that remained to him to publish a new species. It would perhaps have been more generous in D. to let his deceased friend have all the merit of it. But...

What I sent you, I pray to accept! Some years ago Prof. Ennis, who hails from N. Jersey, gave me some specimens of Isoetes, which he had collected in the river Hackensack. I took them for riparia, on acct of their small size and of their growing inside water. The year after I begged him to bring more, for you and Durieu; but when he returned to the city, he told me that he had not been able to find a single one, having been apparently destroyed by wild ducks.

Since I received your last letter, I have met Canby in the street, running to the R.R. station for Wilmington where he spends the best part of his time and where you should address your letters to him. I had your letter in my pocket, but had no time to communicate it to him, but at my return to Germantown where I shall remain during the hot days, I wrote to him and sent him the substance of your letter referring to him. I am sure you have heard of him since.

Yours devotedly E. Durand

Continue to address your letters to the Academy, I pay frequent visit to the city.

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Rec^d Octob 3^d
Ans same day

Germantown Sept. 27th 1866.

Dear Dr. Engelmann,

Your letter of the 19th has relieve me from much uneasiness: I had heard that you had an attack of Cholera and were very sick. I am happy to be able to contradict that rumor, and testify by your own words that you are well & very well! I hope that your son George has now fully recovered.

Compliments for your discovery of two new species of Isoetes... What will our friend Gray say to 10 species of Am. Isoetes, in his new edition? I will have occasion to write to Mr. Durieu in a few days, when I send him the Catskill mountain Isoetes, and I will give him information of your discovery. I hope the above specimens will prove his macro spores.

I had a letter, the day before yesterday, from McClinton, informing me of his return from the Catskills, where he had found an Isoetes of which he had mailed for me some spec. for Mr. Durieu. I have not received them as yet. I have no doubt that he has also send you some. If he has not, I shall be able probably to send you some, from the box I am now expecting.

In perusing a letter of Durieu, dated last January, I find a subject which I had not communicated to you and may prove important, should you publish something about Amer. Isoetes. I give it to you in his own words:

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When the gentlemen unfolded their package, they found the poor babes withered and apparently dead.

Mr. Powell handed them to his gardener to revive them, if possible and nurse them in the hot House, until they would be in a state to be sent to me. The gardener visiting Philadelphia last January, brought them to me with great care and they were delivered safe. But what to do with them in such cold weather? I could not send them over the Atlantic? I carried them to my friend Kilvington, to be nursed in his hot house, until a favorable season and a good opportunity. Both these presented in the beginning of May and the plants had made very little progress and were scarcely 1 inch hight.

My intention was to send you a part of them; but it appears that I forgot to do it, probably from the great haste for taking advantage of the sailling of my friend. This Isoetes grows in deep water and is completely immersed. Should you wish to have living plants of it, write to Mr. Powell, Newport R.I., who is a gentleman and a man of science, He will be happy, I have no doubt, to comply with your desire.

Friday Sept 28th. My son brought to me, last night, the small box of Isoetes sent to me by Mr. Clinton. It contains about five ^{1002} specimens of the catskill plant in a very strong state and almost

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« Je vous renvoie le specimen d'Isoetes que vous avez eu la bonté de me communiquer, pour le réintégrer dans l'herbier de l'Academie" (It was an *Isoetes* collected by Nuttall in the River Columbia, labelled by him *Isoetes Opaca*)

« J'ai reconnu de suite que cet échantillon avait été fouillé à sa base par quelque botaniste qui aura cherché à y découvrir quelques spores. Il ne m'a fallu qu'un coup d'oeil pour reconnaître qu'il était totalement dépourvu de ces organes, et que, par conséquent, sa détermination était impossible. Cependant la vue de ce specimen a été des plus intéressants pour moi. Elle constate qu'il existe un Isoetes dans la Rivière Columbia, et bien mieux encore, c'est qu'au temps de Nuttall, alors que le genre Isoetes était regardé comme monotype par la généralité des Botanistes, il s'est trouvé un de ces derniers qui aurait reconnu une espèce comme distincte du *lacustris*, en la nommant *Opaca*. Je voudrais bien savoir au juste de quelle époque date cette détermination. Quelque soit la plante du Columbia R^r, il faudra que l'appellation de Nuttall soit rappelée. A laquelle des espèces N. Américaines se rattache cet Isoetes, on ne peut le dire encore; mais déjà on peut affirmer, d'après son ensemble, que ce n'est ni un *Engelmanni*, ni un *melanopoda*, ni un *flaccida*. Elle est voisine ? tout-à-fait un fort specimen de *tenuissima*, qui ~~est certainement~~ l'espèce en cause ici; Il ne serait pas ~~impossible~~ impossible non plus que ce ne fût une espèce nouvelle; mais on ne le saura que lorsque la plante aura été retrouvée et cueillie en bon état »

Why, my dear Dr Engelmann, am I obliged to be the intermediary to transmit to each other ~~of~~ two such men as Durieu and yourself, your ideas ~~and~~, speculations and discoveries upon a subject in which both of you are so deeply interested? I would like to see you both in direct communication. To prove to you the great respect and the high opinion he entertains for you, I send you the little note from which I have copied the above.

My announcement that Canby had found Juncus Elliottii in Delaware, is a mistake on my part. He had said that he had received specimens of that plant. My hearing is becoming very bad and I misunderstand frequently what is said to me.

I have, I am afraid, a long story to tell about the Rhode Island Isoetes to which the now returned label belongs. I had it many years ago from Thurber. Few years ago, Prof Bridges brought some specimens of it from the vicinity of Newport. All those which I have seen were exactly the same form as the one you have. I send it to Durieu, as probably the Floridian flaccida. Prof. Bridges is in the habit of visiting, almost every summer, his friend Mr Powell at Newport and, the summer before this, I requested him to bring me living specimens to send to Durieu. Messrs Bridges & Powell went out to the lakes, several miles from Newport, rather late in the season; the old plants had disappeared to make place ~~[illegible]~~ [illegible] plants of which they gathered an ample quantity. The day was very dry and hot, and

Recd Octob 3d

rotten. I will have to dry them before they can be sent. I expected there would be enough to sent you a part of them; but I am almost certain that Mr. Clinton who knows how deeply interested you are in this genus, will have sent you some, as he says that the plant was abundant in one of the lakes. I shall not sent to Mr. Durieu, before I have received a note from you or from Mr. Clinton to whom I ask some information as to the habits of this plant.

You must have received a large package of Juncus from the Academy or Prof. Porter.

If you can spare specimens of I. Braunii, do not forget me. You may have received some pacific Isoetes and perhaps that of Nuttall. I will make the desired corrections with Juncus pallescens albescens.

I have just perused your last letter to Meehan. Meehan is an extremely intelligent man, who is in a position to perform for you many observations which you may point out to him.

Sincerely yours

E. Durand

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Recd Oct 17
Ans Oct 22

Phila. Saturday oct. 13th 1866

My dear Doctor,

I have received, this afternoon, your favor of 9th instant and, without loss of time, I have been hunting your desiderata & something more, and It remains to me only to answer your letter. As I cannot do anything directly to advance our science, I am happy to assist those who are engaged in giving us light.

I send you No 4 & 5 Nuttall plant & the *macrospora* of Durieu, with a note from him and, on the back, another note from Gay, when he returned me the plant. No 1 is an Isoetes, marked vicinity of Bethlehem, belonging to Academy's herbarium.

No 2 is another Isoetes which I collected myself on the island above the Bethlehem bridge. It was immersed on the banks of the Island, growing among stones & gravel like our *riparia* of the Delaware. From its small size and habits I thought it was a *riparia*, but I have been said it was an *Engelmanni*. No 1 looks more like the latter. No 3 comes from a ditch of very clear water on the Rail-road to Atlantic City, 4 miles from Camden. It was discovered by Leidy. It is immersed and its leaves spread flat in the bottom of the water. In this way *it tapisse le fond* of the ditch of a beautiful green color. In the places where the water is shallow the leaves are more or less erect and mixed up irregularly and differently of the ordinary form of the *Engelmanni*, which, however it appears to be. It grows in a light mud.

Our riparia grows above as well as below the city on both banks of the Delaware, in soft water and at the level almost of low tide. It remains uncovered about four hours. It desappear entierely (the old plant) during the winter; but the youngsters which begin to spring out in autumn do not, as you may have perceived in those I sent you; there were evidently two crops. I have not heard that it had been found much above Philadelphia. Perhaps does it grow as far as Trenton, the point above which the tide ceases. ~~the tide~~; but our botanists have not looked for it higher up than our city. So far it has not been found in brackish water

Poor Mr Gay would feel quite happy at the new isoetic discoveries

Good night! This package will be mailed only tomorrow.

Always sincerely yours, E. Durand

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Rec Nov 12
Ans same day

Phil. Nov. 8th 1866.

My dear Dr Engelmann,

I have before me your favor dated 22d ulterior. If I have not answered it sooner, place it to the account of the Italian Opera, which has given us fifteen representations, successively every night, except Sunday, and to every one I have assisted. My nights are otherwise occupied with my correspondance and other writing; my mornings with my studies, and my afternoons, with long walks in the country. Of course the correspondance has been neglected.

Yes! I will get mad with you, If I have not soon your photograph: I have for it a vacant place in my botanical album which contains already the likenesses of 26 american botanists. Execute yourself as I have done it, not with the desire of showing my old wrinkled face, but to give up to the sollicitation of friends.

Now, let me follow your letter: I have found no arkansas Corydalis from Nuttall in our herbaria; but I send you a capsule of a specimen collected in Arkansas by Dr Pitcher. You will find also a spec. labelled by Nuttall Corydalis parviflora, St Louis Mo. It is exactly the form of our aurea which Rafinesque had baptized also parviflora. Between this plant and var. montana of Wisconsin, Hale, there is a great difference in size and habit.

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Isoetes Nuttallii, A. Br. & *I. macrospora*, Durieu, have arrived safe, and I have permission to send them back to you to submit them to Prof. A. Braun. When he returns them, please request him to send also bits, if not full specimens of several *Nayadea* which I transmitted to you, some years back, to be submitted to him. I would like to know the names of those I have left.

Yes! The Atlantic city R.R. specimen is for you. It comes from the same locality as those I sent you 2 years ago. I had no more specimens of it and I borrowed that from Prof. Leidy. All I can say about it is that its habit appeared to me different from those which I had seen before. Its leaves were shorter, stouter and they were spread quite flat on the ~~gro~~ mud very symetrically, and they covered all the bottom of the pool, where the water was deep; in the shallow places, some leaves were standing up irregularly. The water was clear as spring water and the bottom was soft mud, through which I passed my hand, and lifted them up, root and all with great facility. I had not the courage, this fall, to go and renew my stock: four miles to return on foot, under the rays of the sun, were rather too much for my old legs.-

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I am quite surprized at what you say of the Bethlehem Isoetes No 2, belonging to the Academy's herbarium.- It must come either from Mr Schweinitz or from Mr Steinhaur. I do not recollect whether I sent it to you with the original lable, or whether I copied from the sheet that contained it; but, certainly, it was marked vicinity of Bethlehem; not from the island; but from some of the hills about Bethlehem, perhaps.

As to the Catskill plant, it was certainly marked so! I thought the writing was in the hand of Dr Pickering, and not knowing his direction, I sent it to Gray with request to submit it to him and get some information about it. The writing was not Pickering and he knew nothing about the plant. In that trip, or otherwise, the lable has been lost; but no mistake about it. Gay, Durieu, Gray and Pickering have seen that lable it!

As to my own specimens from the Bethlehem island they were collected by myself with Mr Fiot, and I always considered it identical with our riparia. It is small, growing between stones and always covered with water, growing at the level of the lowest water.

The Delaware *riparia* seems to be growing all along our river, from Barracks Creek, Burlington, Conrad! to Wilmington, Canby (so I have been told. My specicome from above Camden; Mr Parker found it below Camden and Mr Ch. Smith met with it, a few days ago, below the mouth of the Schuylkill with the Hemianthus of Nuttall. Some years ago Prof. Ennis brought me specimens of (apparently) riparia, collected in the river Hackensack, N. Jersey, I believe. The year after, he was to bring me more; but the wild ducks had uprooted them all.

I thank you for the specimen of I. lacustris from Germany; but my eyes do not permit me to use the microscope, I rely altogether upon yours.

Nuttall's voyage through the continent was performed in 1834. He arrived on the Columbia R. in September and remained at fort Vancouver until the middle of December. His herborizations were principally made in the valley of Walla Walla see my biography of Nuttall, in the Proceedings of the Philosophical Society, published before 1860.

I believe that I have answered all your questions, now it is 8 o'clock and I go to my supper.

Good evening! and believe me your
Devoted & affectionate friend
E. Durand

And do not forget the precious photograph.

Mr Conrad request me to ask you what has become of Mr

Recd Nov 19th
ans Nov 25

Phil. Nov. 15th 1866

Dr G. Engelmann,

Mon cher Docteur,

I spoke to you in my last letter of an Isoetes, supposed to be riparia, having been found by Prof. Ennis, in the river Hackensack, N. Jersey. I was not very sure of the name of the river, but I have met Professor Ennis and inquired from him if I was not mistaken? so I was!

and you will find by his note autograph that it was in Passaic river.

I am afraid that the plant is not advanced enough to find ripe spore, for it must have been in august, or sooner, in the time of college vacations that he collected them.

Toujours à votre service

E. Durand

I had yesterday a letter from Durieu. He had received the Isoetes of Lake Winnipiseogee from Mr Boott, alive and in good order. Like you and Prof. Braun, he now considers it as echinospora — Prof. Ennis has given me for you all the specimens he had in his herbarium; but he has many more somewhere else, which he will hunt for you if these are not sufficient. If riparia, I believe this plant would be found in the mouth of all our Atlantic rivers, if well sought for.

But what will you say of my Bethlehem plant; I am pretty sure that I collected it on the stony shores of the island. In the summer of 1865, I went there for it and I had much trouble to find a few plants, where the year preceding I had found plenty.

MSS.
George Engelmann Papers

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Rec Dec 21st
Ans Dec 25

Phil. December 18th/66.

Jan 1867 73 years old (see 3d page)
died Jan 1873, therefore 79½ years old — born Jan 1794

My dear Dr Engelmann.

Why, another species of Isoetes (I. Tuckermanii) of which I never heard before? Bless me! How many species of this genus shall we have in the end?

I never looked at one of these plants, before I got interested in their behalf by our late venerable friend Mr Gay, except when I visited Gray on my return from Europe, end of 1860. I asked G. to look at his Isoetes to see the 2 new species described in his Manual. Their form and sizes had remained in my memory. When I saw, for the first time, the plant of Hall, I felt satisfied that it was exactly the same as one I had seen in Gray's herbar. marked by you I. Engelmanni, Missouri, I think. When I became acquainted with the Wilmington & Darby's plants, I always contended that they were different in appearance at least. See if I am right. Your plant of Gray's herb. is, I think, a melanopoda.

The Isoetes of Bethlehem Island, marked by me lacustris in Gray's collection must have been collected in 1863. If I marked it lacustris, it was a name ad randum. I had not studied it. In 1864, I did not visit the Island; but in 65, I went there again and we found them very scarce and very small, growing in running & under water (which was then very low, and like the riparia between stone in a muddy soil.

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Their habits and size ~~was~~ were so much like those of riparia that I sent them to Durieu under that name which he corrected into that of Engelmanni. The same I sent you lately.

It would be very strange that the plant in Gray's herb. should prove to be a lacustris. Both were collected on the same south banks of the island. I begin to think that the spores are not always a constant character, at least when they are not ripe. (Collected in August both times)

I cannot say when Mr. Schweinitz collected his specimens, in general h.'s labels do not bear any date. He was dead, when I became an active Member of the Academy in 1834, and his plants were already incorporated in the Acad. general herbarium. I have no doubt that the Catskill plant belonged to his herbarium, as I am certain that it was labelled Catskill, and might have been in the hand writing of Rev. Steinhauer.

Since 1815, date of Nuttall's discovery of I. riparia, Dr. Pickering was the leading botanist of Philadelphia. Griffith, Bridges, Carson, &c and Rafinesque, all of whom I have known well, never spoke of Isoetes, and like me never meddled with them, I believe. James, whom I have seen today, looking with me for Isoetes in Muhlenberg's herb. (there were none) told me that before 1844, he had collected it above Kingsinton, on this side of the Delaware, above the city, almost opposite to Zanzinger & my own locality it has been found lately on both sides of the river below the city by our young botanists

Now, my Dear sir, What else do you want to know, that I can answer? Do not be afraid to bother me, I have nothing else to do, to spend my evenings in my solitary room of an hotel.

I send you herewith the last part of a letter, lately received from Mr. Durieu, to whom I sent a lot of about 400 of our mosses labelled by Mr. James. How happy I have made him!

As he intends publishing a general memoir on the Isoetes, in which their different organs will be represented; You would do well to send him your types, so that he might have their organs figured in the same memoir. Why should you not open a correspondence with him? He is such a good man.

Thanks for Mr. Conrad and myself for the informations on Messrs. Theodore & Eugene Hilgard.

A good health, prosperity, and renewed succes in the botanical Department, &c. &c. are my Wishes of this approaching new year which, next month will complete my 73d year.

Very sincerely yours E. Durand

Excusez mon griffonnage et mes corrections, I hurry for the Academy meeting!

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Recd Aug 22
Ans same day

Philadelphia 19th Augt 67.

My dear Dr Englemann,

This is just to say "How do you do!" and give you, I think, a pleasurable sensation.

Among a set of Texas specimens, I find the enclosed Marsilea, which I take for the macropoda of your note to Prof. Braun's article on new American species of Isoetes & Marsilea.

These specimens, of which I send you the best, were collected in Wixons Creek, Guadeloupe Co., Texas, by Dr. Gedeon Lincecum. The spores are in a good state of maturity and, if you have not seen any other specimens, since your note to the above, You will have here a fine chance to perform the description of this fine species. If you think that Prof. B. be glad to have a specimen, I will try to find out another: Give me his address.

I cannot send you anything new from these parts, I now stay at home and work in my herb. At 74, it is all that a reasonable man can do. But you have heard of our intrepid Botanists

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[illegible] 12
Ans. same day

Porter, Canby & others. There never was so much enthousiasm among our botanists as there is now. Gray gratified me, more than a month ago, with a fine copy of his new edition. It is greatly improved. Prof. Wood has just published in our Proceedings the description of a new genus of Asphodeleæ. Very good, I think. He sent the Academy a specimen of it, and it proves to be a plant of much eclat. The color of the perianth is of a bright scarlet, very much the same shade as the Aquilegia Canad. He will undoubtedly send you a copy.

Yours very cordially

E. Durand

Recd Aug 31
Ans Oct 11

Phil. Augt 28th 1867.

Dr Geo. Engelmann, St Louis.

My dear Dr Engelm.

I am very happy to have made you happy; and still more happy to make you happier, by my being able to send you some bits of specimens of your Marsilia macropoda. I have another bit for Gray and one for myself and that is all.

I wrote yesterday to Dr Lincecum, and copied that part of your letter relating to himself. He is a great friend of mine and I will say (between us) that he has a great Sui ipsius amor and will do anything for you, if you take the trouble to address him one of your finest letters. He is extremely obliging and enthousiastic in everything relating to the Nat. sciences.

I communicated to Leidy your last paragraph and, this morning, he has left the enclosed note for you.

How I would like to see the novelties received from Dr Bolander. Prof. Alphonso Wood has paid us a visit and presented to the Academy a paper, descriptive of a new Asphodelleæ, Brevoortia Ida-Maia, It is a beautiful plant and, certainly a new genus! He had also splendid specimens of Darlingtonia.

Of both these rare plants he presented specimens to the Academy. Gray tells me that Bolander also had found Brevoortia and will be much disappointed at being anticipated by Wood. No doubt that the latter has sent you his paper; otherwise, I have two copies and might send you one.

I have long been afraid that my Veratrum Californicum would prove to be V. Woodsii. I sent Wood a bit of a specimen to ascertain if it was, which, at his great regret, proved to be, not a Woodsii, but a new species of his already described in his manuscript. He also sent me a beautiful Lupinus, which he thinks is a new species; but which I had likewise in Pratten's collection and named Concinnus, Agardh. in my enumeration. I may be mistaken.

Could I not buy california specimens from Dr. Bolander? Dr. Brewer told me that the number of species in California was not much above 1200; I believe that I have not less than that number in my herb. from Nuttall, Torrey, Pratten, Heermann, Woodhouse, &c.

Thank you for Wolfia ambiga. I have W. columbiana from N. Orleans, Riddel. I will receive perpusilla & any thing else with pleasure.

Yours, E. Durand

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Rec: Sept 28s
Oct 11

Phil. Sept. 19th 1867.

Dr. Geo. Engelmann.

My dear sir,

I have just gone over the new edition of Gray's Manual and made lists of the species that are not represented in my herbarium. One is addressed to you and I send you below a copy of it, persuaded that you will be willing to help me, where it is in your power to do so.

Leidy is expecting your answer with anxiety and is confident that you will give him a good account of the new paleontologic discovery.

I remain cordially yours

E. Durand

I had yesterday a long letter from my old friend Lincecum. Write to him as quick as possible. He is soon to leave Texas for British Honduras. Use my name with him; we are on very friendly terms.

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Recd Oct 25th
Ans Oct 28

Phil. Oct. 21st 1867.

Dear Dr Englemann,

I have before me your favor of 11th instant, and I will answer every paragraph succesfully. First of all, do not feel ashamed of your tardiness in answering my letter: I know that you have a great weight of occupations on your shoulders, towards the advancement of science, and a reasonable lazy fellow like me, can well wait your moments of leisure.

I am very happy to possess, at last, that photograph of yours, that I had almost dispaired of. It is really a magnificent specimen, ten years younger, in appearance, that I suspected you to be. It is a true german type, and I like this good, honest and intelligent face.

I rejoice, My Dear Englemann, at the unification of your great country. I have been astonished to this day, that it was not begun sooner. I would, however, be very sorry, should your country men show any pretentions to upon Alsace and Loraine which, since the revolution of 89 to which they have greatly participated, have shown themselves the best of our fellow citizens. I have placed your photograph the fellow of Dr Leidy's.

I called on Mr Ch. Smith a few days after the reception of your letter. He told me he has just written to you, and advised you that his packages of Junci should be soon forwarded to you.

The result of the last election has somewhat relieved me of my bad feelings respecting the state of political affairs in this country. I now hope that things will turn out as both of us desire: Reconciliation, Peace, Government of the white race, and complete return to the old constitution!

I send you herewith all that I have of Riddell's Wolffia. I had a whole sheet of them, but (entre nous) Austin sent me back only this small piece. I have no confidence in his new species: I know that, in Bryology, he showed very little discernement, and created new species which have been eliminated by Lesquereux, Sullivant & James.

Porter told me that you were working the American Vines. I send you by post a package containing, among the rest, some Texas Vines, sent to me by my old friend Lincecum, with his notes upon which you may rely as a good observer. There are also a few from Maj. Leconte and from Buckley.

I published, in 1862, in the journal of la Société d'acclimatation, a monograph of the American Vines, which was republished, with some corrections, dans les Actes de la Société Linnéenne de Bordeaux. Buckley m'en a voulu beaucoup to have given the name of Candicans, – Engelm.

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to his V. mustangensis; not because it was not the same; but because you had not given a full description of it (and upon this he pretended to the priority). He scolded at me also for having made of his Ampelopsis heptaphylla a variety of ~~A. 5folia~~. He tells me in a letter that his Ampelopsis ~~quinque~~heptafolia is a good species; that it is a small tree 20-30 feet high, &c.

I regret not to have sent you specimens of the latter plant, but my package is made, sealed &c.

I believe that I have demolished Mr. Scott's Asplenium ebenoides by showing another anomalous form of A. pinnatifidum. Both have black and shining stipes; but whilst Scott's plant has leaves resembling more those of A. ebeneum, mine has short-oval leaves more acuminate only than those of A. pinnatifidum, with a few above the middle of the frond, that are long and acuminate like those of Scott's plant. The general opinion of our botanists is that both these ferns are hybrids of A. pinnatifidum and eburneum. I found mine in a parcel of A. pinn. collected by Kilvington near Norristown, banks of the Schuylkill. These forms must be very scarce, for they are not found in any of our numerous Phil. Herbaria.

I hope my Vites will be of some use to you. You may rely on old Lincicum's notes. What he calls Mountain grape was collected last ~~year~~ summer, on a tour to the wild northern parts of Texas.

I have a specimen of what I consider Equisetum Telmateia, from Nicollet's collection and also of Aster anomalus from you.

If you desire me to send you mes Vignes amer. They are bound in a large vol. of Miscellaneous, which I might send you by some of your fellow citizens coming to Philadelphia. By calling upon me at 1818 Delancy Place, which is very far from the centre of the city; or leaving his address at the Academy, I would take the book to him.

Now I close my letter sending you my regards and best wishes,

Yours E. Durand

Open with care

Recd Nov 7th

Phil. Nov. 4th 1867.

My dear Dr Engelmann,

Of course, take one half of Riddell's Wolffia. . . .

That package of vines, which I sent you by mail, has given me a good deal of uneasiness. Such bundels sent through the Post-office as specimens, ought not, as I learnt afterwards, have any writings, and this was full of written notes. I expected, every moment, to receive an injunction to appear before the court and be fined heavily, as a defaulter against the law. Your letter has releived me of this apprehension; but I shall not expose myself another time.

When you return these things, do it by express, or private occasion; but do not hurry and wait until you can add to them such of the specimens I begged you to procure me.

I have sent to Buckley some of your notes of his vines, and requested him to address you his remarks as, last year, he has paid a particular attention to his *new* species, against which Gray has been so unmerciful. The fact is that his descriptions were made more on recollection of the plants he had seen, than on the specimens he had brought with him. These were in the most miserable state. His Ampelopsis heptaphylla, he says, is quite distinct from the quinquefolia; it is a small tree.

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Can you procure me autographs of Lindheimer, Fendler, Ch. Wright, Wislizenus, Parry, Vasey, Bolander, Braun, and any other of your german Botanists whose names are identified with N. amer. Botany. I wish to illustrate each specimen, bearing the name of one of them, with their own autograph. (This favor, it is understood, if it is not to give you too much trouble)

I had yesterday a touch of chill & fever, owing to evening walks which I am in the habit to take in a marshy district near the city.

Decidedly the Asplenium ebenoides of R. R. Scott is a hybrid of A. ebeneum & A. pinnatifidum. We have now 6 or 7 specimens, all different from each other, sometimes with a greater number of leaves of ebeneum, or the reverse; but always with a black shining stipe and the prolonged apex. I have only one specimen, collected more than 20 years ago, and placed with pinnatifidum with this note "anomalous form" With the exception of the black stipe and a few lanceolate divisions, it does not differ from A. pinnatifidum. It was found lately with the Camptosorus; but the fruit dots are the same as those of Asp. pinnatif.

Farewell! and believe me cordially yours

E. Durand

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Rec' Dec 24

Durand

Philad. Dec. 20th 1867

My dear Dr. Engelmann,

I am in receipt of your favor dated 6th inst. I do not see why I would bother you with a letter, when I have nothing to say, and your time is so full of occupations, professional and scientific. Yet a letter must be answered and I will do it.

I knew that you would be pleased with the acquaintance of old Lincecum, and I regret that, at his age of about 80 years, he undertakes such an adventurous journey, as that of Tuxpan, through a country infested with brigands, fevers & every thing bad. If he arrives safe at Tuxpan, You may be sure that he will hunt for you the Cacti of that region. He is an intrepid collector of every object pertaining to the natural sciences. His grudge for Dr. Wood is well merited. Dr. W. had requested Lincecum to employ some boys in collecting insects & other things, for him, and so far he has refused to pay them, and has complained bitterly of having paid four Dollars for freight of a large box filled up with all the objects which he had requested to be collected for him by the said boys.

Do not give the trouble to any one of your merchants to take charge of my package of Vites, send them by express, whenever you have leisure, and, if you can slip among them some of the new californian species of Bolander, when you have abundance of them, you will make me very happy. Three weeks ago, a package of California plants, collected by Dr Gibbons, were presented to the Academy and referred to me to determine. I accepted on condition that they would be submitted to Gray.

Out of about 120 species, I made sure of about 60 and the rest doubtfull or altogether unknown to me, except the genus, have been sent to Gray. Among them an *Hosackia*, not in the monograph of Gray, and 2 large Phacelia which I do not find described in my books.

Buckley was very mad with me at my having published his *Vitis mustangensis*, under your name of *V. candicans*. He pretended to have the priority, as you had not given a full description of it. *Famoe sacra fames* has been very injurious to him.

When will the enumeration of Bolander & Brewer's calif. plants be published? I hurried sending to Gray the Gibbons' plants with the view to incorporate in that enumeration such ones as might be new, or from other localities.

As to the question of autographs, I desire only those of botanists whose names are given to genera or species of N. American origin.

To the name of Startwell, we have now to add that of Prof. Dewey among the dead; Then will follow that of E. D. I believe I am now perhaps the oldest.

I had, a few days ago, a letter from Dr Robbins whose health has been very bad; but is now improving; and another from Dr Chapman announcing an invoice of desiderata, and the return of a number of southern plants not included in his flora, Plants from the late Mr Collins' herbarium, and collected by Baldwin, Ware, Blodgett, Elliott & others — which I had sent to him. I have not heard lately from Mr Wood; I fear that he has forgotten the Darlingtonia and Brevoortia which he had promised me.

Now, Farewell! my dear Dr Engelmann and believe me as ever cordially E. Durand

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Recd March 12th
Ans ——— 15

Phil. March 7th 1868

My dear Dr. Engelmann,

I was beginning to be uneasy about you, when I met Mr. Charles Smith who communicated to me a letter from you, announcing your intended visit to our good city of Brotherly love. I rejoice at this good news and hope you will consent to take a family dinner at 1818 Delancey place.

I presume you will be on your way to the Fatherland, to take your son to some University. If so, I wish you to inform me, before hand, whether you will pass through Paris and remain there some time to see the acquaintances of the Garden of Plants, Messrs. Decaisne, Spach & Brongnard?

In such a case, I should prepare~~r~~ a letter to the last gentleman, in relation to my herbarium which I intend sending there in a few months. I shall have a good deal to tell you about that matter.

Very cordially

E. Durand

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Recd Frankf. 22 July
Ans x y 8 Aug

Paris July 16th 1868

My dear Dr. Engelmann,

I am in Paris since the nineth instant, with my son and his wife, occupied with the installation of my herbarium in the botanical galery of the Jardin des plantes. Drs Torrey and Gray have loaded me, each with a large package of plants to be placed in my collection and this operation I am now performing with little pleasure because I find but few plants that I do not posses alrea' Dr. Gray's package contains the plants of Fendler, N. Mex. which I had all; and Torrey's, the plants of Bridges, which his widow gave to the Smithsonian Institute and this latter to Dr. T. I was happy enough, before my departure from Philadelphia to have in my hands a collection made in Alaska by Dr. Kellogg. This collection, about 300 species, was presented to our Academy by Dr. Davidson of the coast survey, by whom I was permitted to retain duplicates for myself. With a set of the plants collected by Dr. Rothrock, in the expedition for the télégraphic line between Russia and S. Francisco, I have now almost the whole Flora of the N.W. coast, which completes my collection of N. american plants.

My herbarium and myself have been well received at the Garden of plants, and it is really a great acquisition for ~~their~~ it, being so far rather poor in N. amer. species.

I will do all possible haste to return in the fall of the year. Although I am in the middle of an affectionate family, I apprehend the Winter. Houses are so uncomfortable to us, accostumed to the conveniances of of our american homes, that I fear I would suffer from the cold. On another side, my son, who is obliged to return would not be pleased to leave me behind.

The box you had left at the Academy was used almost immediately to pack up other matters. Your little packages are safely deposited in the botanical room. I duly received your nine photographs which I distributed to the nine friends whom you designated to me; but, unfortunately, my memory is so bad, that I gave one to Dr. Gabb, who was not on your list, and I had (to do justice to all) to abstract from my own album botd., the photograph which you had sent to my a year or more ago. I have brought here all the return photogr. except those of Dr. Hayden and Mr. Parker. I have besides 3 portraits which you will be glad to have _ Nuttall, Michaux the younger and Muhlenberg, and also the photograph of my good friend Dr. B. Smith, who has a great admiration for you, and desires to have yours. Consequenty, you are my debtor, if you please, of two photographs of your happy and joyous face; one for me, the other for Dr. B. Smith, a good botanist and one of the best men I ever Knew, - a quaker.

If you have any acquaintance in Paris, one who can transmit you those portraits & Photographies, give me ~~their~~ his direction and I will take them to him.

Now, my dear Doctor, I will say farewell! and believe me yours cordially

E. Durand

My compliments and respects to Mrs Engelman, for me and my children, who never will forget the pleasure they had in making her acquaintance. Old Mister Spach and myself had a long conversation about you.

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Rec.d Oct 28
An Dec 31 1871

Philadelphia, Oct. 24th 1870

My dear Dr Engelmann,

I received, last saturday, your good letter dated 19, and I paid, this morning, your subscription to the Proceedings for the present year, for which enclosed receipt, with Gabb's direction on the back, from good source.

No! We shall not go to war together, I hope; but if we were 40 years younger and should have remained at home, we might have met on the field, sabre or bayonette fixed at each other's breast.... This execrable war makes me mad — Mad against the foolishness and ignorance of the French Government who, devoid of any military power, declares war, under the most stupid pretext, to a nation who has attained the highest military power that ever existed. — I am mad at the fogginess and ignorance of our military leaders, compared with the abilities and Science of their enemies, — I am mad at the cowardise of our emperor, who surrenders, with an army of one hundred thousand men, ready to brake through the Prussian army, with a loss of one fourth their number — I am mad with your Attila, the greatest and most cruel robber of the age — I am mad, above all, with your Bis-smart, the greatest rogue

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that ever excited, who, confident in the great military power of United Germany, invented all sorts of tricks and vexations to exasperate France and provoke that cruel war that we deplore on both sides and which he had, at last, the satisfaction to bring about. Cannot a Franctireur be lucky enough to lodge in his breast a blessed bullet!

But, my dear Engelmann, that war is not ended, and it might cost as much to Germany as it will cost to France; and if you admire now King William, you may have occasion to hate him as a great military tyrant and the usurper of all your small principalities.

But let me change the subject, it sickens me.

I have spent agreeably the whole summer in Annapolis, where we accompanied Mrs Norris who had there some business. Whilst we had roasted for a couple of weeks in Philadelphia, we enjoyed there such refreshing sea breezes, that we remained three months in the best company possible. We are now living at a new hôtel, called the Colonnade Ho. Were we are on ne peut mieux; but we expect to be still better, next saturday, in a private boarding

House, where we shall have our parlor and private table, without the trouble of servants and marketing; but it is and expensive way of living. Every thing now is excessively high. Mr. Norris has broken house and retired in Washington. Please now ~~to~~ address me your letters, as formerly, at the Academy of Sciences.

Nothing new in our Academy. Smith has returned from his trip to Europe. Leconte is still there with his sick wife; they spent last winter in Algiers and were delighted with the climate. Leidy is here bien portant and always at work. No letters from Paris, of course; those which I expect, will be to announce the misfortunes of half a dozen nephews who will ask assistance for the losses they have met at the hands of the Prussians.

The debt of a photograph has been settled and yours is embracing that of Lesquereux in my botanical album.

Sans rancune and always sincerely yours,

With my respectful compliments to your lady and to both from my children. What has become of your son? Not in the Prussian army, I hope.

E. Durand

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